

NCES Overview

The creation of NCES supports the Department of Defense Net-Centric Data Strategy - May 2003. Netcentricity compels a shift to a "many-to-many" exchange of data, enabling many users and applications to leverage the same data, yet extending beyond the previous focus on standardized, predefined, point-to-point interfaces. Net-centric data objectives seek to ensure that all data are visible, available, and usable when needed and where needed.

To support the NCES's net-centric goal, the Joint Collaborative Analysis Network (JCAN) was developed. The JCAN consists of two separate networks, the Defense Information System Network-Leading Edge Services (DISN-LES) Extension and the Fast Mesh. The JCAN physically extends the DISN-LES into neighboring labs to facilitate data exchange and reduce data redundancy. The JCAN increases the data analysis response to the customer for both developmental purposes and interoperability test support.

For more information:

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www.jitc.fhu.disa.mil/jdep/nces_overview.html



NET-CENTRIC ENTERPRISE SERVICES (NCES)



Joint Interoperability Test Command

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Joint Interoperability Test Command

*Increasing Combat Effectiveness
Through Interoperability*

Located in Southern Arizona on historic Fort Huachuca, the Joint Interoperability Test Command (JITC) is committed to providing comprehensive interoperability support to the Joint Distributed Engineering Plant community through its Net-Centric Enterprise Services (NCES).



NET-CENTRIC GOALS

- ◆ Visible
- ◆ Accessible
- ◆ Institutionalize
- ◆ Understandable
- ◆ Trusted
- ◆ Interoperable
- ◆ Responsive to User Needs

CAPABILITIES

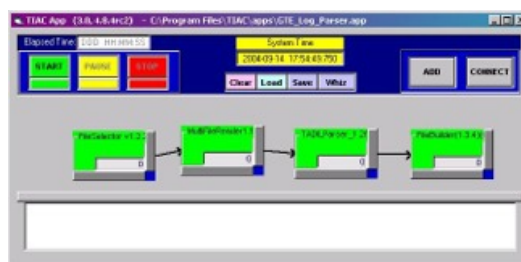
The NCES employs Analysts and Software Developers to provide post-test analysis and tool support. NCES capabilities center on the ability to process and analyze various message types and message recording formats. Supported message types/formats include: DIS, TADIL-A/B, TADIL-J, DERG, TIBBS, HLA, etc. Once the post-test data is received; Developers use the Theater Air

Missile Defense Interoperability Assessment Capability (TIAC) suite of application to parse the data into eXtensible Markup Language (XML) or Comma Separated Value (CSV) files which are then imported into a database for analysis.

TOOLS

Rapid post-test analysis and reporting are accomplished by the experienced NCES professionals using tools created by NCES Developers:

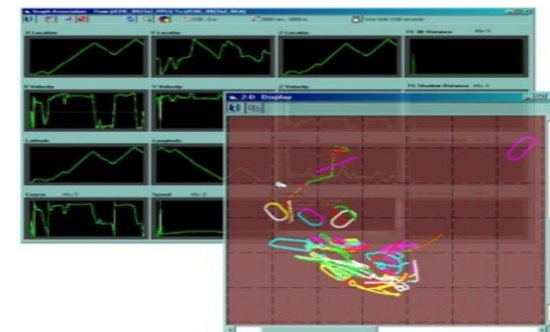
TIAC Application



The **TIAC Application** uses Microsoft's Component Object Model (COM) technology to parse the raw data files into XML and then applies style sheets to produce CSV files, which are imported into an Structured Query Language database. By creating separate COM objects, Developers are able to "drag and drop" different objects into the application and parse nearly any format of data that is received. This technology enables rapid prototyping and development of objects to parse new formats and other raw data files while reusing current applications.

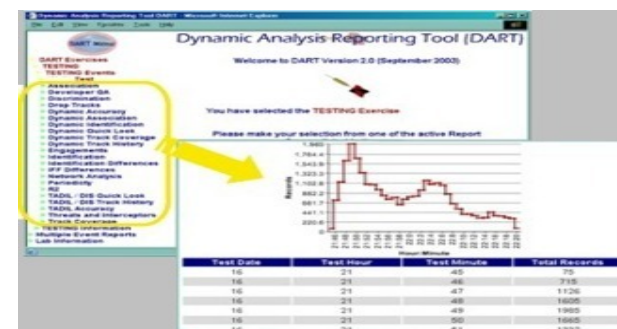
The **Association Tool** provides Developers and Analysts with visual association of objects between two datasets using charts, graphs, and animation. The Association Tool handles nearly all data formats and displays values such as longitude, latitude,

Association Tool



altitude, course, and speed in graphical format. This enables Developers and Analysts to locate potential areas of concern within the test data. These graphs are also used to verify the data integrity from its raw state to its database format.

Dynamic Analysis Reporting Tool (DART)



The **DART** is a web-based analysis tool used to provide interactive reports from categories, such as: Track Coverage, Reporting Responsibility, Latency, Association, and Identification. The DART allows the Analysts to dynamically filter the post-test data enabling them to view the data of interest without extraneous information. Developers work closely with the Analysts to develop additional reports to quickly meet new requirements.